# 4.2.A. 0602000101 (Tennessee River).

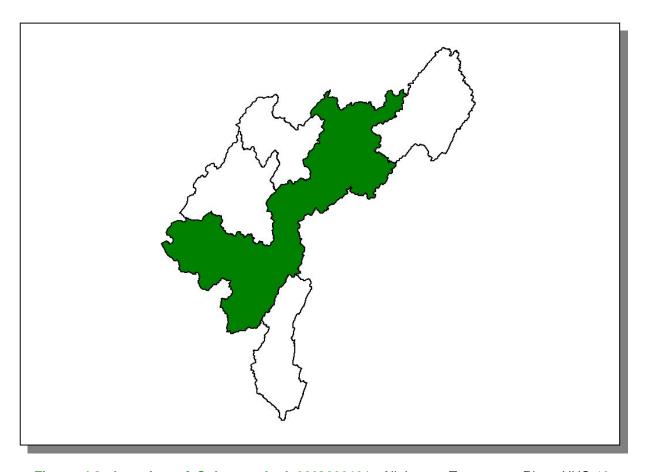


Figure 4-2. Location of Subwatershed 0602000101. All Lower Tennessee River HUC-10 subwatershed boundaries are shown for reference.

# 4.2.A.i. General Description.

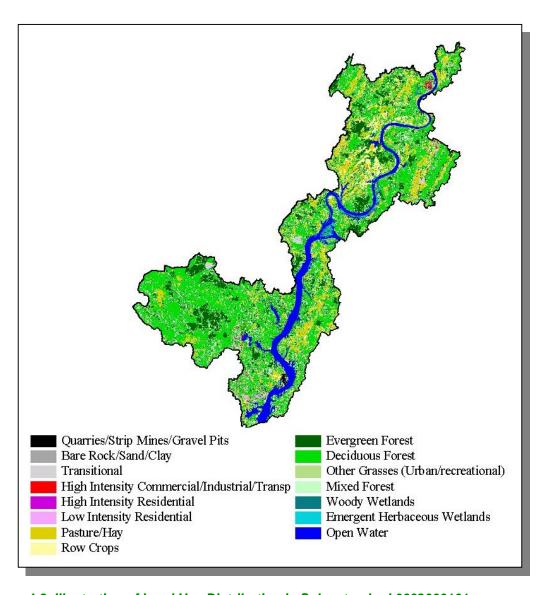


Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0602000101.

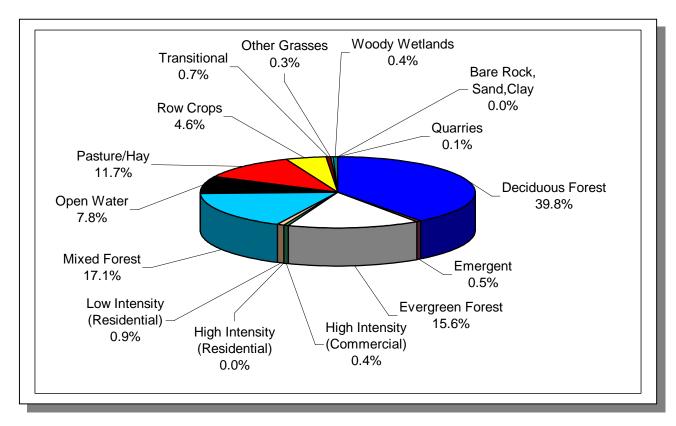


Figure 4-4. Land Use Distribution in Subwatershed 0602000101. More information is provided in Appendix IV.

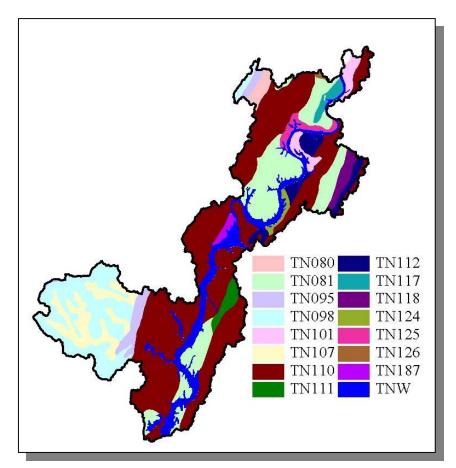


Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0602000101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN080	1.00	С	1.38	5.16	Loam	0.35
TN081	5.00	С	1.41	5.48	Silty Loam	0.35
TN095	0.00	В	2.35	5.12	Loam	0.31
TN098	1.00	С	3.98	4.82	Loam	0.32
TN101	0.00	В	1.71	5.39	Loam	0.35
TN107	1.00	С	6.34	4.84	Loam	0.28
TN110	0.00	В	2.22	4.69	Loam	0.31
TN111	0.00	С	1.41	5.10	Loam	0.34
TN112	6.00	С	2.36	5.09	Loam	0.35
TN117	6.00	С	2.06	5.16	Loam	0.37
TN118	0.00	С	6.52	5.12	Loam	0.29
TN124	0.00	В	1.77	5.33	Loam	0.33
TN125	0.00	С	8.50	5.00	Sandy Loam	0.20
TN126	19.00	С	1.30	5.12	Loam	0.33
TN187	0.00	В	1.26	5.12	Loam	0.27

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0602000101. More details are provided in Lower Tennessee Appendix IV.

	COUNTY POPULATION			ESTIMATED POPULATION IN WATERSHED				
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-1997)
Bledsoe	9,669	10,650	12,367	1.28	124	137	159	28.2
Hamilton	285,536	194,856	307,896	25.7	73,397	75,795	79,145	7.8
McMinn	42,383	46,000	49,015	0.02	7	7	8	143
Meigs	8,033	9,690	11,086	3,222	2,588	3,122	3,572	38.0
Rhea	24,344	27,672	28,400	28.05	6,829	7,762	7,966	16.6
Sequatchie	8,863	10,119	11,370	9.09	806	920	1,034	28.3
Totals	378,828	398,996	420,134		83,751	87,743	91,884	9.7

Table 4-3. Population Estimates in Subwatershed 0602000101.

				NUMBER OF H	DUSING UNITS	3
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Dayton	Rhea	5,671	2,306	1,710	596	0
Decatur	Meigs	1,361	550	387	159	4
Lakesite	Hamilton	781	326	65	261	0
Soddy-Daisy	Hamilton	8,240	3,356	305	2,998	53
Totals		16,053	6,538	2,467	4,014	57

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0602000101.

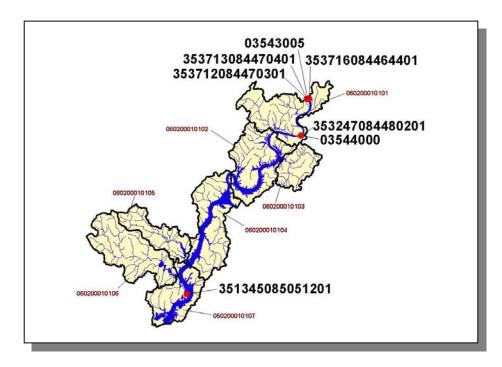


Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106 and 060200010107 boundaries are shown for reference. More information is provided in Appendix IV.

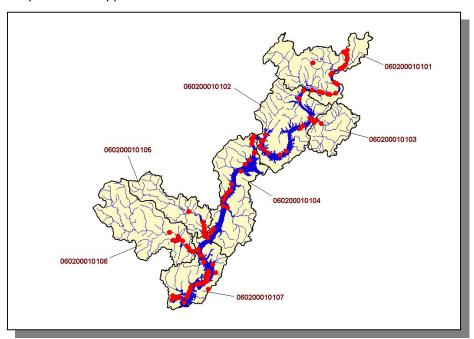


Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

### 4.2.A.ii Point Source Contributions.

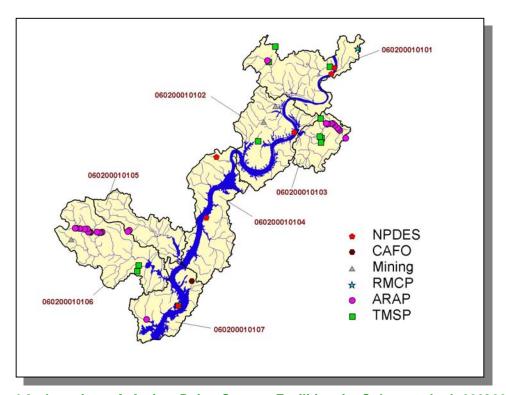


Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

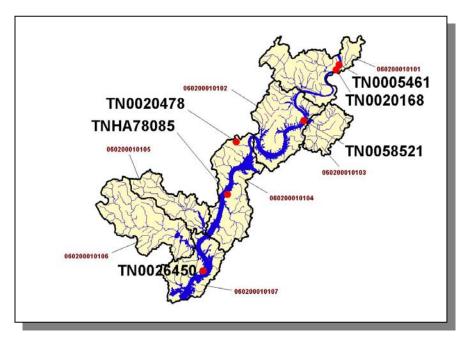


Figure 4-9. Location of NPDES Facilities in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

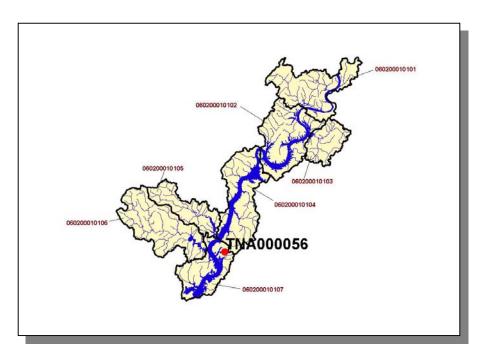


Figure 4-10. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

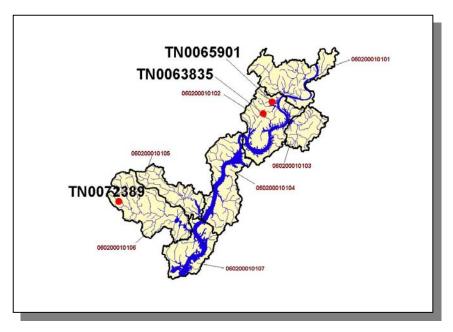


Figure 4-11. Location of Active Mining Facilities in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

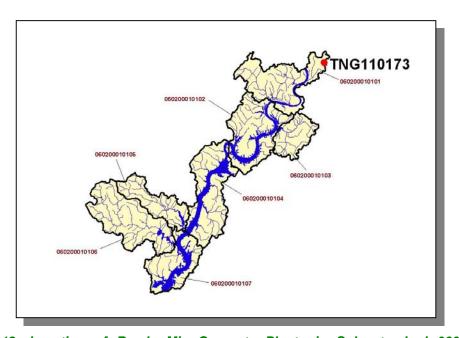


Figure 4-12. Location of Ready Mix Concrete Plants in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

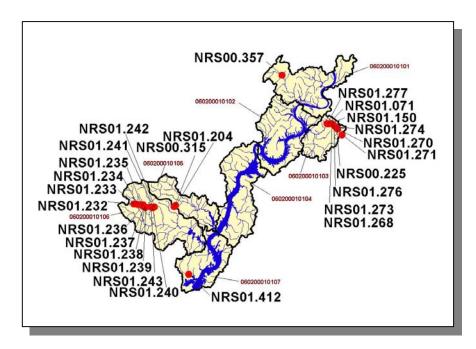


Figure 4-13. Location of ARAP Sites (Individual Permits) in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

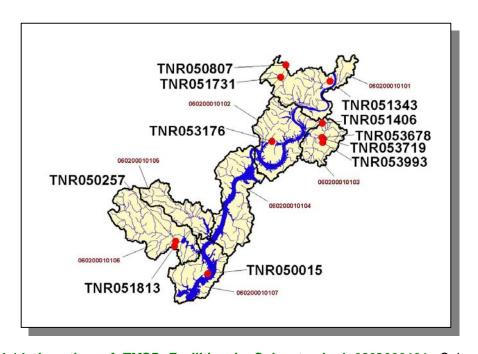


Figure 4-14. Location of TMSP Facilities in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

#### 4.2.A.ii.a. Dischargers to Water Bodies Listed on the 2002 303(d) List

There are two NPDES facilities discharging to water bodies listed on the 2002 303(d) list in Subwatershed 0602000101:

- TN0058521 (Decatur STP) discharges to Tennessee River @ RM 514.8
- TN0020478 (Dayton STP) discharges to Tennessee River @ RM 504

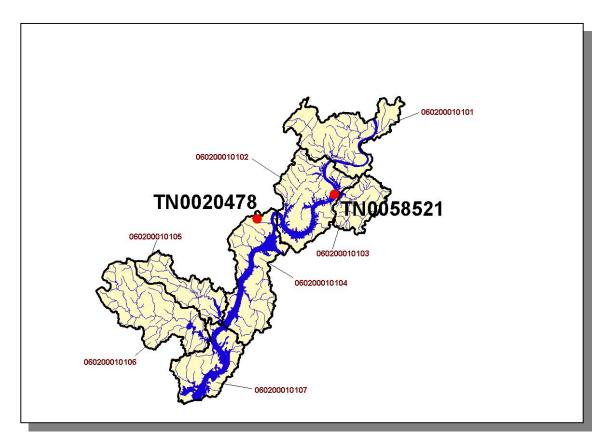


Figure 4-15. Location of NPDES Dischargers to Water Bodies Listed on the 2002 303(d) List in Subwatershed 0602000101. Subwatershed 060200010101, 060200010102, 060200010103, 060200010104, 060200010105, 060200010106, and 060200010107 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0058521	3,610	4,340	4,910	3,680	0.34
TN0020478	3,610	4,340	4,910	3,680	2.69

Table 4-5. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0602000101. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT#	CBOD <sub>5</sub>	FECAL COLIFORM	TRC	TSS	SETTLEABLE SOLIDS	DO	рН
TN0058521	Χ	X	Х	Χ	X	Χ	Х
TN0020478	Χ	X	Х	Х	X	Χ	Х

Table 4-6. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0602000101. CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

### 4.2.A.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
5,385	11,560	658	20	298,515	560	28

**Table 4-7. Summary of Livestock Count Estimates in Subwatershed 0602000101.** According to the 1997 Census of Agriculture (<a href="http://www.nass.usda.gov/census/">http://www.nass.usda.gov/census/</a>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

	INVEN	ITORY	REMOVAL RATE		
	Forest Land	Timber Land	Growing Stock	Sawtimber	
County	(thousand acres)	(thousand acres)	(million cubic feet)	(million board feet)	
Bledsoe	186.2	186.2	0.9	2.3	
Hamilton	210.7	210.7	2.2	6.0	
Meigs	83.0	83.0	0.2	0.0	
Rhea	126.5	126.4	1.7	4.7	
Total	606.4	606.3	5.0	13.0	

Table 4-8. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0602000101.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.39
Legumes (Pastureland)	0.77
Grass (Hayland)	2.02
Legumes, Grass (Hayland)	0.17
Grass, Forbs, Legumes (Mixed Pasture)	0.31
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	3.67
Soybeans (Row Crops)	4.10
Tobacco (Row Crops)	5.65
All Other Row Crops	4.45
Oats (Close-Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	5.15
All Other Close-Grown Cropland)	1.99
Non-Agricultural Land Use	0.00
Conservation Reserve Program Lands	1.00
Other Land in Farms	0.00
Farmsteads and Ranch Headquarters	0.20

Table 4-9. Annual Estimated Total Soil Loss in Subwatershed 0602000101.